

ABSTRACT

By making use of a set of loading of stimulation and no loading, variation signals in time of hemoglobin density at a plurality of measurement points of a subject attached of an optical measurement probe and corresponding to a plurality of channels are detected, and for the respective detected hemoglobin variation signals principal component analysis is performed as well as a representative signal having a higher contribution rate is extracted and the extracted representative signal is displayed on a monitor. A correlation between the representative signal and a task reference and response waveform representing a response pattern of a living body in response to a stimulation task is calculated, and a representative signal having the highest correlation value as calculated is displayed in a discriminable manner from the other signals as a task related signal which responds most to the stimulation given to the subject.

From weights of the respective channels for the representative signal displayed as the task related signal, an optical measurement point or region, which responds most to the task is identified and displayed in discriminable manner.

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(71) 出願人(米国を除く全ての指定国について): 株式会社日立メディコ (HITACHI MEDICAL CORPORATION) [JP/JP]; 〒100-0047 東京都千代田区内神田一丁目1番14号 Tokyo (JP). 株式会社日立製作所 (HITACHI LTD.) [JP/JP]; 〒101-8010 東京都千代田区神田駿河台四丁目6番地 Tokyo (JP).

(72) 発明者; および

(75) 発明者/出願人(米国についてのみ): 川崎 真護 (KAWASAKI, Shingo) [JP/JP]; 〒270-2203 千葉県松戸市六高台5-1 65-1-B32 Chiba (JP). 田中 尚樹 (TANAKA, Naoki) [JP/JP]; 〒350-0395 埼玉県比企郡鳩山町赤沼2520番地 日立製作所基礎研究所 Saitama (JP).

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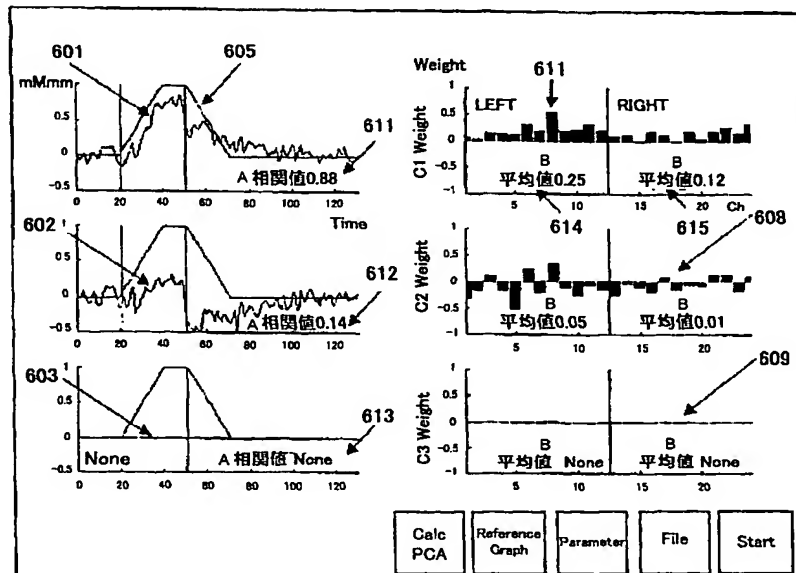
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(54) Title: LIVING BODY PHOTOMETRIC DEVICE

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A...CORRELATION VALUE:
B...AVERAGE VALUE:

404

(57) Abstract: The time-change signals of a hemoglobin concentration, at a set of stimulus loaded time and non-loaded time, are detected from a plurality of measuring points on a photometric probe-attached sample and at a plurality of channels corresponding to positions, respective detected hemoglobin change signals are subjected to a main component analysis, and a high-distribution representative signal is extracted which is then

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